## PATENT ABSTRACTS OF JAPAN

(11)Publication number:

57-072272

(43)Date of publication of application: 06.05.1982

51)Int.CI.

HO1M 6/18 HO1M 4/06

// HO1M 4/50

21)Application number : **55-148364** 

(71)Applicant: TOSHIBA CORP

22) Date of filing:

24.10.1980

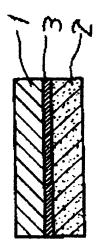
(72)Inventor: KANDA MOTOI

YAMADA SHUJI

## 54) SOLID LITHIUM BATTERY AND ITS MANUFACTURE

57) Abstract:

PURPOSE: To obtain a battery which has a flat discharge characteristic and small voltage decrease at high voltage by constituting the battery by use of a negative lithium electrode, a positive electrode made of a mixture consisting of manganese dioxide and lithium iodide, and an electrolyte nade of a thin lithium-iodide layer produced between the electrodes. CONSTITUTION: A negative electrode 1 made of lithium metal or its alloy, a positive pellet 2 prepared from a mixture consisting of manganese lioxide and lithium iodide, and a solid electrolyte 3 made of a thin lithium addide layer produced in the interface between these electrodes joined agether are used in constituting a solid battery. For instance, a current ollecting body is placed in a metal mold, a mixture consisting of nanganese dioxide and lithium iodide is placed on the current collecting ody, and the mixture is lightly pressed. A negative lithium-plate electrode and another current collecting body are placed over the former mixture, and a pressure of ground 21 terms in a public department.



nd a pressure of around 3t/cm2 is applied on the current collecting body. After that, the battery is wired with a ead wire, and the entire battery is covered with paraffin, thus a solid battery is obtained. Consequently, a attery which has a flat discharge characteristic and small voltage decrease at high voltage can be obtained by nproving the diffusion of lithium ions contained in the positive electrode.

## **EGAL STATUS**

Date of request for examination]

Date of sending the examiner's decision of rejection]

Cind of final disposal of application other than the

Date of final disposal for application]

Patent number]

Date of registration]

Number of appeal against examiner's decision of rejection]

Date of requesting appeal against examiner's decision of rejection]

Date of extinction of right]

examiner's decision of rejection or application

Copyright (C); 1998,2003 Japan Patent Office